IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Eric Wolfsgruber et al. Confirmation No.: 3047
Serial No. : 10/057,547
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Examiner : John J. Zimmerman

Docket No. : 02-121
Customer No.: 34704

DECLARATION UNDER 37 C.F.R. 1.132

I, Dr. Eric Wolfsgruber declare as follows:

That, I am a co-inventor of U.S. Patent Application Serial No.09/647,411.

That, I am a graduate of the University of Technology of Vienna, Austria, where I received a doctorate degree in Technical Chemistry in 1997.

That, from 1997 to the present I have been employed at MEPURA.

The following data establishes the superiority of powder metallurgically produced metal foam of the present invention.

Two AlSi12 foams were prepared as follows:

FOAM A from molten metal per VALDO '666

AlSi12 was molten in an electrical furnace at approx. 600°C. 1% of a foaming agent (TiH2-powder) was poured in the melt, after decomposition of the foaming agent the melt was poured into a mould having the shape of a hollow cylinder and cooled rapidly. The resulting foam is FOAM A.

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The following text data shall establish the superiority of powder metallurgically produced metal foam.

Two AlSi12 foams were prepared as follows:

Alloy A – Foam:
AlSi12 was molten in an electrical furnace at approx. 600°C. 1% of a foaming agent (TiH2-powder) was poured in the melt, after decomposition of the foaming agent the melt was poured into a mould having the shape of a hollow cylinder and cooled rapidly. The resulting foam is Foam A.

Composite B – Foam:
Al + 10 - 12% Si powder with a grain size of 0 – 500 µm as well as 1% foaming agent (TiH2-powder) have been admixed thoroughly and compressed in a die. The pressed densified material was placed into a heatable mould.(shape of a hollow cylinder) and shortly heated up

Considered - /s/ 11/9/05